Application No.: 10/575,474 Amendment under 37 CFR 1.114
Art Unit: 1646 Attorney Docket No.: 062405

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1-8. (Cancelled)

9. (Currently Amended): An implant consisting of comprising:

a bioadaptable porous material on which an adenoviral or retroviral vector carrying a gene

encoding an osteo-inducible transcription factor Cbfal is adsorbed.

10. (Previously Presented): The implant according to claim 9, wherein the bioadaptable porous

material is any member selected from the group consisting of hydroxyapatite, α -TCP, β -TCP,

collagen, polylactic acid, hyaluronic acid, polyglycolic acid, and a complex of any thereof.

11. (Currently Amended): The implant according to claim [[10]] 9, wherein the bioadaptable

porous material is a porous body consisting of a synthetic polymer composite synthesized from

hydroxyapatite, ß-TCP, or D, D-L, and L-polylactic acid.

12. (Currently Amended): The implant according to claim [[11]] 9, wherein the bioadaptable

porous material is porous \(\beta\)-TCP.

13. (Cancelled)

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14. (New) The implant according to claim 9, further comprising bone marrow derived cells.

15. (New) The implant according to claim 14, wherein the bone marrow derived cells are

osteoblasts.

16. (New) The implant according to claim 14, wherein the bone marrow derived cells are

isolated from an individual in need of said implant.

17. (New): An implant comprising:

a bioadaptable porous material on which an adenoviral or retroviral vector carrying a gene

encoding an osteo-inducible transcription factor Cbfal is adsorbed,

wherein the bioadaptable porous material is any member selected from the group

consisting of α -TCP, β -TCP, collagen, polylactic acid, hyaluronic acid, polyglycolic acid, and a

complex of any thereof.

18. (New): The implant according to claim 17, wherein the bioadaptable porous material is any

member selected from the group consisting of B-TCP, polylactic acid, and a complex of any

thereof.

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19. (New): The implant according to claim 17, wherein the bioadaptable porous material is a

porous body consisting of a synthetic polymer composite synthesized from \(\beta\)-TCP, or D, D-L,

and L-polylactic acid.

20. (New): The implant according to claim 17, wherein the bioadaptable porous material is

porous B-TCP.

21. (New) The implant according to claim 17, further comprising bone marrow derived cells.

22. (New) The implant according to claim 21, wherein the bone marrow derived cells are

osteoblasts.

23. (New) The implant according to claim 21, wherein the bone marrow derived cells are

isolated from an individual in need of said implant.

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